

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/019583 A2

(51) International Patent Classification⁷: **E06B**

(74) Agent: **BERENATO, Joseph, W., III**; Liniak, Berenato & White, LLC, 6550 Rock Spring Drive, Suite 240, Bethesda, MD 20817 (US).

(21) International Application Number:
PCT/US2004/027079

(22) International Filing Date: 20 August 2004 (20.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/496,404 20 August 2003 (20.08.2003) US

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **MA-SONITE CORPORATION** [US/US]; One North Dale Mabry Highway, Suite 950, Tampa, FL 33609 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **PFAU, James, P.** [US/US]; 34950 Paulson Road, Kirkland, Illinois 60146 (US). **GUPTA, Manish** [IN/US]; 2268 Wilson Creek Cr., Aurora, Illinois 60504 (US). **MACDONALD, Michael, J.** [US/US]; 1028 Chillem Drive, Batavia, Illinois 60510 (US). **BAJWA, Dilpreet** [IN/US]; 2947 Dorchester Drive, Fayetteville, Arkansas 72703 (US). **KON, Richard** [US/US]; 18612 John Connor Road, Cornelius, North Carolina 28031 (US). **FAGAN, Gary** [US/US]; 16014 Henry Lane, Huntersville, North Carolina 28078 (US). **LYNCH, Steven, K.** [US/US]; 555 Marion Avenue, St. Charles, Illinois 60174 (US).

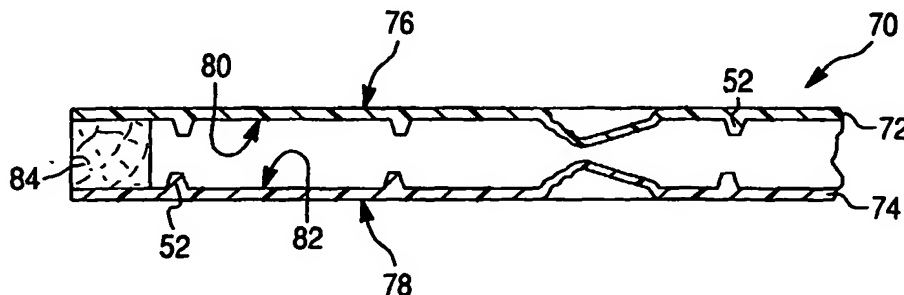
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITE DOOR STRUCTURE AND METHOD OF MAKING SAME, AND COMPOSITE DOOR AND METHOD OF MAKING SAME



(57) Abstract: A composite door structure especially suitable for use as a door facing is provided. The structure comprises about 40 weight percent to about 80 weight percent thermo- plastic polymer; up to about 30 weight percent glass fibers; and a filler selected from (a) about 5 weight percent to about 40 weight percent mineral filler and (b) about 10 weight percent to about 50 weight percent organic fibrous additive. A composite door comprising the door facing, and methods of making the same are also provided.